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09/752,304 12/28/2000 Thierry D. Besson M-7928 US 4883 35385 7590 07/06/2004 EXAMINER SILCON VALLEY PATENT GROUP LLP CHAVIS, JOHN Q 2350 MISSION COLLEGE BOULEVARD APTINIT PAPER NUMBER	APPLICATION NO. FILING DATE			FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
SILCON VALLEY PATENT GROUP LLP 2350 MISSION COLLEGE BOULEVARD CHAVIS, JOHN Q	09/752,304 12/28/2000		2/28/2000	Thierry D. Besson	M-7928 US	4883	
2350 MISSION COLLEGE BOULEVARD	35385	7590	07/06/2004		EXAMINER		
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DATE MAILED: 07/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



		Application No.		Applicant(s)		X
Office Action Summary		09/752,304 BESSON, THIE		RY D.	O	
		Examiner		Art Unit		
	ii	John Chavis		2124		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover s	sheet with the co	orrespondence a	ddress	
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however within the statutory minin will apply and will expire SI cause the application to b	er, may a reply be timous and thirty (30) days X (6) MONTHS from to become ABANDONED	ely filed will be considered time he mailing date of this of		
Status						
1)⊠	Responsive to communication(s) filed on 12-28	<u>3-2000</u> .				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This	action is non-final	•			
3)	Since this application is in condition for allowar	nce except for form	nal matters, pro	secution as to th	e merits is	
	closed in accordance with the practice under E	x parte Quayle, 19	935 C.D. 11, 45	3 O.G. 213.		
Disposit	ion of Claims					
4) 🛛	Claim(s) 1-23 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdraw		tion.			
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) 1-23 is/are rejected.					
7)	Claim(s)is/are objected to.					
8)	Claim(s) are subject to restriction and/or	election requirem	ient.			
Applicat	ion Papers					
9) 又	The specification is objected to by the Examiner	r.				
	The drawing(s) filed on is/are: a) acce		cted to by the E	xaminer.		
	Applicant may not request that any objection to the	drawing(s) be held ir	abeyance. See	37 CFR 1.85(a).		
	Replacement drawing sheet(s) including the correcti	on is required if the	drawing(s) is obje	ected to. See 37 C	FR 1.121(d).	
11)	The oath or declaration is objected to by the Ex	aminer. Note the a	attached Office	Action or form P	TO-152.	
Priority (under 35 U.S.C. § 119					
12)	Acknowledgment is made of a claim for foreign	priority under 35 l	J.S.C. § 119(a)-	-(d) or (f)		
	☐ All b)☐ Some * c)☐ None of:	, ,	3 ()	(-, -, (,).		
,	1. Certified copies of the priority documents	s have been receiv	ved.			
	2. Certified copies of the priority documents	s have been receiv	ed in Applicatio	on No		
	3. Copies of the certified copies of the prior	ity documents hav	e been receive	d in this National	Stage	
	application from the International Bureau	(PCT Rule 17.2(a	a)).			
* 5	See the attached detailed Office action for a list of	of the certified cop	ies not received	d.		
Attachmen	t(s)					
	e of References Cited (PTO-892)		terview Summary (
	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		aper No(s)/Mail Dai otice of Informal Pa	te Itent Application (PT	O-152)	
	r No(s)/Mail Date		ther:	phiodaon (i	- 102)	
.S. Patent and T	rademark Office					

Art Unit: 2124

Detailed Action

Specification

1. The abstract of the disclosure is objected to because missing items exists for example on page 1, lines 10. The items listed as "XXX" and "YYY" must be corrected or deleted. Correction is required. See MPEP § 608.01(b).

Furthermore, the applicant is hereby advised that website addresses are not allowed to provide support for the specifications. Therefore, every occurrence must be deleted and specific information required for support of the application should be provided. For example, one occurrence exist on line 6 of page 4. Other occurrences exists; however, the applicant should check the entire specification to ensure deletion of all occurrences.

35 USC 102 Rejection

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-4, and 7-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Narayan et al.

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CLAIMS:

1. A method of describing a to-be-built integrated circuit, the method comprising:

reading first data from memory, wherein the first data corresponds to a first cell of a plurality of cells in a library used in manufacturing said integrated circuit,

wherein the first data comprises a plurality of names of a corresponding plurality of signals input to the first cell;

and replacing each name in the first data with one of a plurality of new names, respectively, thereby to obtain first renamed data.

2. The method of claim 1 further comprising passing the first renamed data to a predetermined function for

Narayan et al.

See the abstract, which indicates that the system provides for efficient construction (to-be built) of large circuits via Boolean functions (i.e. describing).

See section 4.1, which provides for the reading of data corresponding to variables f and g. See also the second paragraph of section 3.2.1, which indicates that data

See the introduction, specifically the first paragraph, which refers to a compact representative for Boolean functions (plurality of signals).

This feature is considered inherent to solve various cad problems and to reduce space requirements for ROBDD's, see paragraphs 2 and 3 of section 1.

See the abstract, which refers to constructing large circuits (models).

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generating at least a first model for said first cell.

- 3. The method of claim 2 further comprising relating an address in a cell library of the first cell with the first model obtained after said passing.
- 4. The method of claim 3 wherein said first model has a field, and the act of relating comprises: storing said address in said field.
- 7. The method of claim 1 further comprising: repeatedly replacing each of the names in the first data with one of the plurality of new names, respectively, in an order different from a previous order used in a previous act of replacing; and

repeatedly passing renamed data obtained from said act of repeatedly replacing to said predetermined function.

8. The method of claim 1 further comprising: reading second data from memory, wherein the second data corresponds to a second cell of the

This feature is considered inherent in claim 2 to enable replacing to occur.

See the referenced portions above.

See the rejection of claim 6.

See again the rejection of claim 6.

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plurality of cells, wherein the second data comprises a plurality of names of a corresponding a plurality of signals input to the second cell; and

replacing each name in the second data with one of new names, respectively, thereby to obtain second renamed data.

9. The method of claim 8 further comprising: passing the first renamed data to a predetermined function for generating first BDD or ROBDD data;

passing the second renamed data to said predetermined function for generating second BDD or ROBDD data;

relating an address of the first cell to the first BDD or ROBDD data; and relating an address of the second cell to the second BDD or ROBDD data.

10. The method of claim 1 further comprising: reading second data from memory, wherein the second data corresponds to a portion of a network to-be-built of interconnected circuits, wherein the second data comprises a

See the rejection of claim 6.

See again the rejection of claim 6.

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plurality of names representing a plurality of signals input to the portion;

and replacing each name of the second data with one of a plurality of new names, respectively, thereby to obtain second renamed data.

In reference to claims 11-12, and 16-19, see the rejection of claim 10 and the first paragraph of section 2. The tree structure in section 3.2.1 provides for the data structure and table features.

The storage medium of claim 13 is inherent to enable stored data to be retrieved and to enable data to be replaced.

As per the signal carrier of claim 14, see fig. 1.

In reference to claim 15, 20-23, see the rejection of claim 1.

35 USC 103 Rejection

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Narayan et al. in view of the applicant's choice of utilizing a different order for replacing names.

Claims

- 5. The method of claim 1 wherein after said replacing, the method further comprises replacing each of the names in the first data with one of the plurality of new names, respectively, in a second order different from a first order of said new names used to obtain the first renamed data, thereby to obtain second renamed data.
- 6. The method of claim 5 further comprising: passing the first renamed data to a predetermined function for generating first model;

passing the second renamed data to said predetermined function for generating second model;

relating an address of the first cell to the

Narayan

The order of replacing names is considered a choice of design; since, the overall functionality remains the same in that one name is merely replaced with another.

These features are considered taught by the plurality of data referenced in claim 1.

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first model; and

relating said address to the second model.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Chavis whose telephone number is (703) 305-9665. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jqc June 28, 2004

> JOHN CHAVIS PATENT EXAMINER

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